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METIS.

Liverpool. Equatoreal. (Mr. Hartnup.)

1851.	Greenwich M.T.	R.A.	N.P.D.	Compd—Obsd. R.A.	Compd—Obsd. N.P.D.	Star of Comp.
	h m s	h m s	° ′ ″	s	″	
Feb. 16	9 15 16·1	9 28 24·81	65 9 17·3	−3·32	+6·2	ε Leonis.
—	9 35 12·0	23·92	14·7	−3·26	+5·3	—
—	9 55 8·8	23·04	10·9	−3·21	+5·5	—

The parallax and computed places were deduced from the ephemeris published by Lieut. Stratford, R.N.

The following assumed *mean* place of the star of comparison for 1851·0 is derived from the *Greenwich Observations* for 1848:—

	R.A.	N.P.D.
	h m s	° ′ ″
ε Leonis	9 37 23·02	65 32 32·68

Hamburg. Equator. and Mer. Circle. (M. C. Rümker.)

1851.	Hamburg M.T.	Observed R.A.	Observed Decl.	No. Obs.	
	h m s	° ′ ″	° ′ ″		
Feb. 7	8 30 34·7	144 27 3·5	+24 3 54·7	16	Equatoreal.
9	7 32 13·4	143 56 10·3	15 17·7	12	—
10	8 6 11·2	40 7·8	20 52·8	17	—
11	6 57 34·0	143 25 16·1	26 4·6	8	—
13	7 21 50·3	142 53 50·5	36 18·3	8	—
14	7 19 57·2	142 38 28·7	41 4·7	11	—
17	7 20 42·4	141 52 51·5	24 54 29·5	8	—
21	9 16 18·3	140 53 54·7	25 9 25·0	7	—
23	9 11 5·6	26 29·5	15 21·5	11	—
24	9 17 45·7	140 13 13·0	18 3·3	12	—
26	10 54 29·6	139 46 52·6	22 57·0		Mer. Circle.
27	49 45·4	34 47·1	24 54·1		— —
Mar. 2	10 35 41·8	139 0 42·2	29 35·9		— —
10	9 59 27·4	137 48 42·7	32 24·9		— —
19	21 8·2	137 4 35·6	20 40·4		— —
22	9 8 57·1	136 58 43·8	25 13 37·0		— —
30	8 37 51·5	137 4 9·9	24 48 14·2		— —
31	34 6·4	6 54·2	43 35·9		— —
April 3	23 3·7	18 9·2	32 19·2		— —
7	8 8 43·5	137 39 2·6	+24 14 34·0		— —

Corrected for refraction, but not for parallax.

Mean Places, Jan. 0, 1851, of Stars Compared.

R.A.	Decl.	R.A.	Decl.
h m s	° ′ ″	h m s	° ′ ″
9 15 37·45	+25 5 25·3	9 22 55·48	+25 4 1·8
9 21 30·31	+25 19 45·8	9 22 2·52	+25 3 46·3

Deduced from Hamburg Meridian Observations.

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MARKREE. Mer. Circle. (E. J. Cooper, Esq., and A. Graham.)

Green. M.T.		R.A.	Decl.	No. Wires.	Obsd—Calcd R.A.	Obsd—Calcd Decl.
1850.	d	h m s	° ′ ″		s	″
Dec.	11·706193	9 58 22·72	+18 55 15·0	5	−0·03	0·0
1851.						
Jan.	8·640815	10 1 15·34	20 45 24·1	5	+0·06	0·0
	17·613244	9 56 31·84	21 42 44·6	1	+0·17	+2·4
	24·590220	51 10·86	22 32 10·6	4	+0·06	+3·1
	31·566553	44 42·31	23 20 53·2	5	−0·28	+2·0
Feb.	7·542498	37 34·18	24 5 22·2	5	−0·17	+4·3
	20·497877	24 23·53	25 6 34·0	5	−0·34	+2·1
	21·494362	23 27·72	9 48·4	3	−0·06	−1·2
	22·491131	22 32·24	12 55·1	5	−0·54	+0·8
	26·477815	19 4·78	23 1·7	5	−0·33	+0·7
Mar.	1·467965	16 44·12	28 17·5	4	−0·12	+0·7
	3·461547	15 18·17	30 43·1	5	−0·16	+1·8
	6·452018	13 22·16	32 43·3	5	−0·29	+2·6
	7·448885	12 47·39	32 55·1	5	−0·07	−0·2
	10·439613	11 13·62	32 27·8	5	−0·16	+2·9
	12·433542	10 20·77	31 6·7	5	−0·18	+1·5
	18·415875	8 29·58	22 39·4	5	−0·09	+0·9
	20·410167	8 8·09	25 18 28·1	5	−0·28	+2·0
	29·385594	8 8·12	24 51 50·8	5	−0·25	+1·3
April	2·375025	8 57·00	36 23·9	2	−0·14	+3·2
	8·360307	9 11 2·95	+24 9 22·7	5	−0·05	−2·4

Correction for parallax and compared places computed from Graham's elements, *Monthly Notices*, vol. xi. p. 36.

Jan.	8.	*Metis* much brighter than was expected.
	17.	Clouds.
Feb.	21.	Extremely faint. Cloudy at last three wires.
March	1.	Clouded at fourth wire.
	6.	Unsatisfactory.
	7.	Very faint.
	10.	Bad illumination.
April	2.	Transits very uncertain. Bisection not good.

Extract of a Letter from Professor Chevallier.

"I have lately had a clock constructed to mark right ascension in arc; the pendulum vibrating once in $\frac{2}{3}$ of a second of time, or while an arc of 10″ passes the meridian. The clock indicates at the same time sidereal *time* to the nearest minute.

"I have since heard that Sir G. Shuckburgh had a clock on this principle, which is at Greenwich; so I suppose there is no use in describing what has been already done.

"I think the quickness of beat an advantage in observing, but that is a personal matter."

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